

Message Text

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E.O. 11652: N/A
TAGS: BENC, PE
SUBJECT: MAJOR PROJECT-TRANSVASEMENT OF MANTARO
RIVER UPPER AFFLUENTS TO THE PACIFIC
WATERSHED

1. SUMMARY: THE GOP HAS DECIDED TO MOVE AHEAD ON
"ESQUEMA DE TRANSVASE" (TRANSVASEMENT SCHEME) PROJECT
WHICH WILL REVERSE THE FLOW OF THE MANTARO RIVER'S
UPPER AFFLUENTS TO THE PACIFIC BASIN. SCHEME HAS
TWO MAIN OBJECTIVES: A) TO PROVIDE FOR THE FUTURE
PORTABLE WATER NEEDS OF GREATER LIMA, B) TO PROVIDE
ADDITIONAL WATER REQUIRED FOR HYDROELECTRIC PROJECTS
DESIGNED TO SUPPLY ADDITIONAL ENERGY FOR THE SAME AREA.
THE TOTAL COST OF PROJECT IS ESTIMATED AT US\$150
MILLION. THE FEASIBILITY STUDY WAS DONE BY BINNIE
& PARTNERS OF LONDON, AS PART OF A PERUVIAN-BRITISH
TECHNICAL COOPERATION AGREEMENT. ACCORDING TO CURRENT
SCHEDULE, THE FIRST STAGE OF PROJECT (TRANSVASEMENT
OF 16 M3/S OF WATER) IS TO BE ONSTREAM BY 1981. A
MULTISECTORIAL COMMISSION, IN CHARGE OF COORDINATING
ACTIONS OF VARIOUS GOVERNMENT ORGANIZATIONS INVOLVED
WITH THE PROJECT, IS NOW CONDUCTING PREQUALIFICATION
OF CONSULTING FIRMS FOR THE REVISION AND UPDATING
OF THE ORIGINAL FEASIBILITY STUDY AS WELL AS THE
PREPARATION OF A DEFINITIVE STUDY PRIOR TO INITIATION
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OF EXECUTION STAGE OF PROJECT. FINAL TENDER FOR
SELECTION OF CONSULTING FIRM FOR PREQUALIFIED
COMPANIES WILL BE ISSUE BY OCTOBER 1977.

2. BRIEF DESCRIPTION OF PROJECT: THE PROJECT TO
DIVERT THE UPPER MANTARO WATERS FROM THE AMAZON TO
THE PACIFIC BASIN HAS BEEN UNDER CONSIDERATION BY
THE GOVERNMENT FOR MANY YEARS. BINNIE & PARTNERS
HAS BEEN ASSOCIATED WITH THE PROJECT SINCE 1968 AND
IN 1973 WAS ENTRUSTED TO PERFORM THE FEASIBILITY

STUDY UNDER THE SUPERVISION OF THE INSTITUTO DE INVESTIGACIONES ENERGETICAS Y SERVICIOS DE INGENIERIA (INIE), AN AGENCY OF ELECTROPERU. BRITISH ASSISTANCE WITH THIS PROJECT IS PART OF A BILATERAL TECHNICAL COOPERATION AGREEMENT.

PROJECT SCHEME COMPRISES WATER INTAKE FROM THE MANTARO AFFLUENTS AT MALPASO AND ITS TRANSVASEMENT BY PUMPING TO THE EXISTING MARCAPOMACocha RESEVOIR. FROM THIS RESERVOIR THE WATER WILL FLOW THROUGH THE EXISTING TRANSANDEAN TUNNEL TO JOIN THE HEADWATERS OF THE SANTA EULALIA RIVER, THE PRINCIPAL TRIBUTARY OF THE RIMAC RIVER WHICH FLOWS THROUGH THE GREATER LIMA AREA. TAPPING MANTARO'S WATERS IS THE MOST ECONOMICAL WAY TO MEET GREATER LIMA'S INCREASING DEMAND FOR POTABLE WATER.

AT THE SAME TIME, THIS WATER WILL BE USED BY ELECTROPERU TO OPERATE ITS PROJECTED SHEQUE HYDROELECTRIC PLANT WHICH, ACCORDING TO FEASIBILITY STUDY MADE BY MOTOR COLUMBUS, CONSULTING ENGINEERS, INC. OF SWITZERLAND, IS TO GENERATE 600 MW OF ENERGY AND TO BE LOCATED ON UPPER SANTA EULALIA RIVER.

THE TRANSVASEMENT SCHEME WILL BE DEVELOPED IN TWO STAGES: ONE) WORKS TO DERIVE 16 CUBIC METERS OF WATER WHICH WILL INCLUDE CONSTRUCTION OF TUNNELS FOR FUTURE WATER FLOW EXPANSION; TWO) WORKS TO INCREASE WATER FLOW TO 32 CUBIC METRICS. IT IS MENTIONED THAT THE INITIAL UNCLASSIFIED

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CAPACITY OF 16 CUBIC METERS WILL BE ENOUGH TO SATISFY LIMA'S WATER DEMAND UNTIL 1989 AS WELL AS TO PROVIDE THE NECESSARY WATER FOR THE SHEQUE HYDROELECTRIC PROJECT. IF FINANCING IS AVAILABLE, THE FIRST STAGE MAY BE ONSTREAM AS EARLY AS 1981.

BASED ON THE ABOVE WATER REQUIREMENTS, THE MANTARO TRANSVASEMENT PROJECT HAS THE FOLLOWING DIMENSIONS:

PUMPING FACILITIES	FIRST STAGE	FINAL DEVELOPMENT
CATAYAN: CAPACITY	16 M3/S	32 M3/S
NUMBER OF PUMPING UNITS	4	7
TOTAL POWER REQUIREMENTS	53 MW	106 MW

CARISPACCHA: CAPACITY	16 M3/S	32 M3/S
PUMPING UNITS	4	7
TOTAL POWER REQUIREMENT	53 MW	106 MW

AQUEDUCTS:

CAPACITY	32 M3/S	32 M3/S
TOTAL LENGTH	34 KM	34 KM

RESERVOIRS	VOLUME (MM3)	ALTITUDE ABOVE SEA LEVEL (METERS)
MARCAPOMACocha	180	4,435

CARISPACCHA	0.6	4,185
LAGO JUNIN	1,300	4,082.6
YANACOCCHA	500	3,540

ESTIMATED COST OF PROJECT AT 1975 PRICES IS US\$140,080,737.
58 PERCENT OF THIS AMOUNT WOULD BE FOR LOCAL COSTS. THE FOLLOWING
TABLE SHOWS BREAKDOWN OF COSTS:

ACCESS ROADS	\$3,659,506
CAMPING CONSTRUCTION	3,395,308
CIVIL WORKS: CATAYAN-	
MARCAPOMACOCCHA	76,185,925
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MARCAPOMACOCCHA RESERVOIR	10,766,666
ELECTRO-MECHANICAL	
EQUIPMENT	27,729,629
TRANSMISSION LINES	10,343,703
JUNIN LAKE WORKS	8,000,000

TOTAL \$140,080,737

3. PREQUALIFICATION OF CONSULTING FIRMS FOR FINAL
STUDIES OF PROJECT
THE MULTISECTORIAL COMMISSION IS REQUESTING PROPOSALS FROM
CONSULTING FIRMS FOR FINAL STUDIES ON PROJECT. INTERESTED
FIRMS SHOULD BE ABLE TO PERFORM THE FOLLOWING SERVICES:
- REVISE, COMPLETE AND UPDATE FEASIBILITY STUDY MADE BY
BINNIE & PARTNERS.
- PREPARE DEFINITIVE STUDY ON FIRST STAGE OF PROJECT WHICH
WILL INCLUDE: ADDITIONAL INVESTIGATIONS, DETAILED
DESIGNS, PREPARATION OF SPECIFICATIONS AND OTHER
DOCUMENTS REGARDING EXECUTIVE OF PROJECT, AND
PREPARATION OF INFORMATION REQUIRED FOR BIDDING
CONSTRUCTION OF CIVIL WORK AS WELL AS PROCUREMENT OF
ELECTRO-MECHANICAL EQUIPMENT.
- COOPERATE WITH THE MULTISECTORIAL COMMISSION IN
COORDINATING PROJECT AND IN SOLVING PROBLEMS.
- PROVIDE FINANCING FOR ABOVE SERVICES, IF REQUESTED
BY COMMISSION.
ONLY FIRMS LISTED ON THE CONSULTING FIRMS REGISTER OF
EITHER WORLD BANK, INTER-AMERICAN DEVELOPMENT BANK, OR
COFIDE (GOVERNMENT DEVELOPMENT FINANCE AGENCY), WILL BE
CONSIDERED. EXPERIENCE OF PARTICIPANT IN PERFORMING
SIMILAR SERVICES AS WELL AS SOUND FINANCIAL POSITION
ARE ESSENTIAL QUALIFICATIONS
FOR THE PURPOSE OF THIS PREQUALIFICATION BID, CONSULTING
FIRMS ARE CLASSIFIED IN 4 CATEGORIES AS FOLLOWS:
- INDEPENDENT CONSULTING FIRMS
- CONSULTING FIRMS ASSOCIATED WITH CONTRACTORS
UNCLASSIFIED

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-CONSULTING FIRMS AFFILIATED WITH EQUIPMENT MANUFACTURERS,
OR MANUFACTURERS WHICH ALSO PROVIDE SPECIALIZED
CONSULTING SERVICES

-ASSOCIATES OF TWO OR MORE CONSULTING FIRMS, OR WITH A
PROMISE TO BECOME ASSOCIATED
TO PARTICIPATE IN FINAL BIDDING, PREQUALIFIED FOREIGN
CONSULTING FIRMS SHOULD BE ASSOCIATED WITH ONE OR MORE
PREQUALIFIED LOCAL FIRMS. TENDER FOR FINAL PROPOSALS
WILL BE ISSUED BY OCTOBER 1977. COST OF SERVICES
INVOLVED IS ESTIMATED AT US\$3-3.5 MILLION PLUS
\$1-1.5 MILLION FOR FIELD INVESTIGATION.

4. ONE COPY OF PREQUALIFICATION BID DOCUMENT, COPY OF
BINNIE & PARTNERS FEASIBILITY STUDY SUMMARY, AND COPY
OF PERU'S FIFTH ENERGY PROJECT REFERENTIAL TERMS ARE
BEING AIRPOUCHED TODAY.

5. INTERESTED FIRMS MUST SUBMIT THEIR PREQUALIFICATION
DOCUMENTS BEFORE JUNE 15. THE ADDRESS TO CONTACT IS:

COMISION MULTISECTORIAL
CONDE DE SUPERUNDA 261, OF. 210AA
LIMA 1, PERU
ATT. ING. AUGUSTO BEDOYA REYES, PRESIDENT
TEL: 814141
TELEX: LIGHT 3540057

6. EMBASSY WILL TRY TO OBTAIN EXTENSION OF BID
DEADLINE. CONSIDERING MAGNITUDE OF THIS PROJECT WE
BELIEVE EXTENSION LIKELY. MAJOR PROJECT DIVISION IS
REQUESTED TO ENCOURAGE SPECIALIZED AMERICAN CONSULTING
FIRMS TO SUBMIT THEIR PREQUALIFICATION DOCUMENTS IMMEDIATELY.
SPECIAL HANDLING RECOMMENDED.
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Message Attributes

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